

Operculo insular epilepsy case series

Case series

Thirteen patients with [operculo insular epilepsy](#) and negative [MRI](#) who were identified by presurgical evaluation and underwent resective surgery from January 2011 to June 2015 were included and analysed in the study of Yu et al., from the [Beijing](#) Institute of Functional Neurosurgery, [Xuanwu Hospital](#), Capital Medical University, [China](#).

In presurgical evaluation, the [ictal](#) symptoms looked reliable enough to characterise operculo-insular seizures in four patients. MEG spike sources were shown in the operculo-insular region in 11 of 13 (84.6%) patients, including cluster spike sources in 7 patients and scatter spike sources in 4 patients. After MEG examination, the original plan of intracranial electrode implantation was changed in five patients. In these patients, electrodes exploring the operculo-insular cortex were not part of the original plan. The pathological examination showed focal cortical dysplasia (FCD) in 12 patients and FCD with heterotopia in 1 patient. Nine (69.2%) patients were seizure-free in 2-6 years' follow-up.

[MEG](#) played an additional and valuable role in the localisation of operculo-insular epilepsy for patients with a negative MRI finding ¹⁾.

¹⁾

Yu T, Ni D, Zhang X, Wang X, Qiao L, Zhou X, Wang Y, Li Y, Zhang G. The role of magnetoencephalography in the presurgical evaluation of patients with MRI-negative operculo-insular epilepsy. *Seizure*. 2018 Aug 13;61:104-110. doi: 10.1016/j.seizure.2018.07.005. [Epub ahead of print] PubMed PMID: 30125861.

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Last update: **2024/06/07 02:57**

